

Starvo SIRIUS GB400

400 kW DC Ultra-Fast Charger — Dual GB/T

SIRIUS GB400 is Starvo's flagship high-power, outdoor-ready DC fast charger engineered for high-demand commercial hubs, fleet depots, and intercity charging corridors. Built on the same proven cabinet platform as the SIRIUS 120 — scaled up to deliver more than three times the power — the GB400 combines a rugged IP55/IK10 enclosure with a 10" touch screen LCD HMI, multi-mode authentication, and OCPP 1.6J protocol for seamless integration with the Starvo platform. Dual GB/T guns with intelligent dynamic power sharing and clear A/B user interface maximize bay utilization and operational efficiency.

Designed for the most demanding commercial environments, the SIRIUS GB400 delivers reliable, ultra-high-speed charging with comprehensive safety features and smart connectivity. The galvanized-steel cabinet withstands harsh weather conditions from -20°C to +50°C, while the top-mounted cable management system ensures tidy, safe handling of the heavy-duty 300 A charging cables. With a wide output voltage range of 200–1000 VDC, this charger accommodates modern passenger EV, commercial truck, and bus battery architectures across China-standard (GB/T) markets.



400 kW Power

Dual GB/T DC fast charging with dynamic power sharing — up to 250 kW per gun for ultra-fast turnaround.



OCPP 1.6J

Full interoperability with the Starvo platform, including remote monitoring, billing, and OTA firmware updates.



IP55 / IK10 Rated

Outdoor-ready galvanized-steel cabinet engineered for tropical climates and high-traffic public installations.



10" Touch HMI

Intuitive LCD interface with QR / VIN / RFID / Plug-and-Charge / Manual authentication and RGB status LED.

Technical Excellence

Input Specifications

- **AC voltage:** 3-Phases + N + PE, 380 / 400 VAC ±15%
- **AC current:** 615 A @ 400 VAC (full load, both guns)
- **AC frequency:** 50 ±1 Hz
- **Power factor:** ≥ 0.99
- **Total harmonic distortion:** ≤ 5% at rated input

Output Performance

- **DC voltage range:** 200 – 1000 VDC
- **Constant power range:** 300 – 1000 VDC
- **Max DC current per gun:** 300 A
- **Max power per gun:** 250 kW
- **Total system power:** 400 kW (dynamic power sharing across both guns)
- **Peak system efficiency:** ≥ 95%
- **Voltage precision:** ≤ ±0.5%
- **Current precision:** ≤ ±1% (≥30 A); ≤ ±0.3 A (<30 A)
- **Voltage stability:** ≤ ±0.5%
- **Current stability:** ≤ ±1%
- **Output ripple (peak-to-peak):** ≤ ±1%
- **Current sharing imbalance:** ≤ 3%

Environmental Resilience

- **Operating temperature:** -20°C to +50°C
- **Storage temperature:** -40°C to +75°C
- **Humidity range:** 5 – 90% RH (non-condensing)
- **Working altitude:** ≤ 2000 m (derate 1°C operating temperature per 100 m above 2000 m)
- **Cooling:** Intelligent forced-air cooling

Standards & Compliance

- **Charging protocol:** GB/T 27930-2015
- **Connector:** GB/T 20234.3
- **Safety standards:** GB/T 18487.1, GB 18487.2
- **EMC:** GB/T 18487.2 (EMC compatibility)
- **Protection rating:** IP55 / IK10 (cabinet) — IK08 (screen)
- **Manufacturing standard:** SRS4MKB1400 II CH

Smart Features & Connectivity

1

Advanced HMI

10" touch screen LCD with multi-method authentication — QR code scan, VIN-based start, Plug-and-Charge, RFID card (ISO/IEC 14443 A/B), and manual operation — supported by RGB panel LED for clear at-a-glance status indication.

2

Precision Metering

DC energy meter compliant with GB/T 50063-2008 and DL/T 5137-2008 standards for accurate, billing-grade energy measurement on every session.

3

Multi-Mode Charging

Flexible charging modes: Auto, Time, Amount, Energy, and SOC-based charging — adaptable to operator pricing strategies and user preferences.

4

Network Ready

OCPP 1.6J protocol with LAN 10M/100M Ethernet and internal 4G LTE wireless modem for redundant connectivity. Backend communication ready for the Starvo platform with remote diagnostics and OTA updates.

Comprehensive Safety Systems

The SIRIUS GB400 incorporates twenty layers of protection to ensure safe, reliable operation in all conditions. Built-in emergency stop functionality provides immediate shutdown capability, while continuous insulation monitoring, output contactor weld detection, and protect-earth connection monitoring safeguard against electrical faults. The system actively monitors and protects against the full spectrum of fault modes from input grid disturbances through to gun-side anomalies.



Emergency Protection

Integrated emergency stop button with continuous insulation detection and earth connection monitoring for immediate fault response — meeting GB/T 18487.1 safety requirements.



Electrical Safeguards

Input overload, input short-circuit, input over-voltage, input under-voltage, input phase-loss, output over-voltage, output current limit, output short-circuit, output reverse-polarity, and output contactor weld detection.



Thermal & Connection Safety

Internal cabinet over-temperature protection, gun-head over-temperature monitoring, gun-head locking mechanism, abnormal connection detection, and battery fault protection during the charging session.



Site & Environmental Protection

Cabinet door access control, anti-reverse current (anti-backflow) protection, dedicated grounding system, and integrated lightning surge protection.

Physical Specifications

Dimensions

W × H × D:

1100 × 2000 × 700 mm (scaled-up SIRIUS-platform cabinet — final dimensions per shop drawing)

Weight

Total:

500 kg (including all power modules)

Installation

Type:

Floor-standing cabinet, anchor-bolt mount



Power Modules

10 × 40 kW high-efficiency power modules with soft-start (3–8 seconds) and low-ripple output. Modular hot-swap design enables field replacement and progressive capacity scaling without taking the unit offline.



Cable Configuration

2 × GB/T charging cables protect 300 A continuous, with top-mounted cable management system and integrated gun-head holsters to keep the bay tidy and the cables protected.

Typical Applications

The SIRIUS GB400 is purpose-built for ultra-high-power scenarios where charging speed, throughput, and reliability are non-negotiable. Its 400 kW output and dynamic dual-gun sharing make it the natural choice for operators serving long-range passenger EVs, electric trucks, and commercial fleets.

Public Charging Hubs

High-traffic urban and highway-corridor sites requiring sub-30-minute charge times and maximum bay availability.

Commercial Fleet Depots

Logistics, e-commerce, and ride-hail fleets with overnight and opportunity-charging needs across mixed vehicle voltages.

Electric Bus & Truck Terminals

Heavy-duty commercial vehicle operators requiring 250 kW+ per gun for short-dwell turnaround between routes.

Intercity Highway Corridors

Strategic rest-stop and toll-plaza installations supporting long-distance EV travel across Indonesia and the broader APAC region.

Mixed-Use Mega Sites

Shopping mall anchor stations, transport hubs, and multi-tenant industrial estates with concentrated peak-hour demand.

Contact & Ordering Information

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Contact our sales team for detailed specifications, pricing, installation requirements, and customization options. We provide comprehensive support from site assessment through installation and ongoing maintenance — including grid impact studies, civil works coordination, and platform integration.

Specifications subject to continuous improvement. Final cabinet dimensions, module configuration, and accessory options confirmed at order placement.